

ABSTRACT

5 A welding method for manufacturing welded structures  
having excellent properties to prevent the propagation of  
brittle fracture occurring in welded joints,  
characterized by the step of forming a repair weld having  
a greater toughness than that of a butt weld and an outer  
edge whose angle  $\phi$  with respect to the longitudinal  
direction of the butt weld is not less than 10 degrees  
10 and not more than 60 degrees, by applying repair welding  
to a region to arrest a brittle crack in a butt-welded  
joint where a brittle crack is likely to propagate after  
removing part of the butt-welded joint, in said region,  
by gouging or machining.